

### **ABSTRACT**

A quarter-rate phase detector can include: four latches controllable to latch, at different times according to quadrature clock signals, respectively, data received by the phase detector so as to form latched signals; an error circuit to combine corresponding ones of the latched signals, respectively, resulting in a plurality of intermediate signals; and a multiplexing unit to selectively output the intermediate signals as a phase error signal. A related method can have similar features.